



A service of the National Library of Medicine
and the National Institutes of Health

[My NCBI](#)
[\[Sign In\]](#) [\[Regis\]](#)

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Book

Search

Limits Preview/Index History Clipboard Details

Display Show Sort by Send to

All: 1 Review: 0

About Entrez
NCBI Toolbar

[Text Version](#)

Entrez PubMed
Overview
Help | FAQ
Tutorials
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI

Related Resources
Order Documents
NLM Mobile
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

[Related Articles](#), [Links](#)

Inhibitory effect of alpha 2-macroglobulin on *Vibrio vulnificus* protease.

Miyoshi S, Shinoda S.

Faculty of Pharmaceutical Sciences, Okayama University.

Vibrio vulnificus, an etiologic agent of wound infections and septicemia in humans, elaborates a metalloprotease which is known to be an important virulence factor of the *Vibrio*. The proteolytic activity of *V. vulnificus* metalloprotease (VVP) toward casein and elastin was inhibited by alpha 2-macroglobulin (alpha 2 M) at the molar ratio of 1:1, although partial activity was maintained. Permeability-enhancing and hemorrhagic activities were also inhibited, but the peptidase activity toward Z-Gly-Phe-NH₂ was not reduced, even by an excess amount of alpha 2 M. VVP formed a complex with alpha 2 M through cleavage of the bait regions of all four alpha 2 M subunits and elicitation of conformational change of the alpha 2 M molecule, which resulted in entrapment of VVP in the alpha 2 M molecule. The peptidase activity of alpha 2 M-VVP complex was inhibited by low-molecular-weight inhibitors such as phosphoramidon, but IgG antibody against VVP failed to neutralize its peptidase activity. Of human plasma proteins, alpha 2 M was the only inhibitor for VVP. These findings indicate that VVP produced during *V. vulnificus* infection is inactivated by plasma alpha 2 M that leaks from the vascular system.

PMID: 2478526 [PubMed - indexed for MEDLINE]

Display Show Sort by Send to

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)



A service of the National Library of Medicine
and the National Institutes of Health

[My NCBI](#)
[\[Sign In\]](#) [\[Register\]](#)

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search for

Limits Preview/Index History Clipboard Details

Limits: Publication Date to 2001

Display Show Sort by Send to

All: 1 Review: 0

About Entrez
NCBI Toolbar

[Text Version](#)

Entrez PubMed
Overview
[Help | FAQ](#)
Tutorials
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI

Related Resources
Order Documents
NLM Mobile
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
[ClinicalTrials.gov](#)
PubMed Central

1: [Zhonghua Yi Xue Za Zhi](#). 2001 Nov 25;81(22):1390-1. Related Articles, Links

[Clinical significance of the novel tumor marker CYFRA21-1 in patients with esophageal cancer]

[Article in Chinese]

Wang T, Zhang W, Liu Y.

Department of Thoracic Surgery, Peking Union Hospital, Peking Union Medical Collage, Beijing 100730, China.

OBJECTIVE: To study the clinical significance of the novel tumor marker--CYFRA21-1 in patients with esophageal cancer. **METHODS:** The CYFRA21-1 level in serum of 84 patients with a definite diagnosis of esophageal cancer was examined 10 days before and after operation by ELISA. A 3 years' follow-up was conducted to the survival of patients. **RESULTS:** (1) The CYFRA21-1 level was > 3.3 ng/ml in 72.6% of the patients (61/84). (2) The serum CYFRA21-1 level decreased significantly after operation in patients at stage III or with high differentiation ($P < 0.05$). (3) The difference between pre- and post-operative serum CYFRA21-1 levels was statistically significant in patients who had undergone radical operation, and was not in patients who had undergone palliative operation. (4) In addition to stage ($P < 0.05$) and type of operation ($P < 0.05$), the difference of CYFRA21-1 level before and after operation was closely related to the prognosis ($P < 0.05$). **CONCLUSION:** CYFRA21-1 is a useful marker in diagnosis and prediction of prognosis of esophageal cancer.

PMID: 11930636 [PubMed - indexed for MEDLINE]

Display Show Sort by Send to

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)



A service of the National Library of Medicine
and the National Institutes of Health

[My NCBI](#)
[\[Sign In\]](#) [\[Regi:\]](#)

All Databases

PubMed

Nucleotide

Protein

Genome

Structure

OMIM

PMC

Journals

Boc

Search **PubMed**



for **alpha 2 macroglobulin and adjuvant**

[Preview](#)

[Go](#)

[Cle](#)

Limits [Preview/Index](#) [History](#) [Clipboard](#) [Details](#)

Limits: Publication Date to 2000

- Search History will be lost after eight hours of inactivity.
- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.
- Click on query # to add to strategy

About Entrez
NCBI Toolbar

[Text Version](#)

Entrez PubMed
Overview
Help | FAQ
Tutorials
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI

Related Resources
Order Documents
NLM Mobile
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

Search	Most Recent Queries	Time	Result
#44 Search alpha 2 macroglobulin and adjuvant	Limits: Publication Date to 2000	15:21:38	65
#42 Search alpha 2 macroglobulin and bacteria	Limits: Publication Date to 2000	12:50:58	217
#36 Search #35 Field: All Fields, Limits: Publication Date to 2000		11:18:20	54
#35 Related Articles for PubMed (Select 12747761)		11:06:03	169
#33 Search #32 and alpha 2 macroglobulin		11:05:38	5
#32 Related Articles for PubMed (Select 11672922)		11:05:11	108
#26 Search alpha 2 macroglobulin and hepatitis		11:04:52	70
#9 Related Articles for PubMed (Select 1375941)		10:32:44	114
#21 Search #20 and alpha 2 macroglobulin		10:32:09	66
#20 Related Articles for PubMed (Select 11100124)		10:24:57	221
#15 Search #12 and virus		10:19:39	17
#13 Search #12 and infection		10:17:58	23
#12 Search alpha 2 macroglobulin and protein complex		10:17:44	915
#5 Search infection and alpha 2 macroglobulin		10:00:14	285
#3 Search t cell epitopes and immune escape and infection		09:50:58	53
#2 Search t cell epitopes and immune escape		09:50:44	124
#1 Search t cell epitopes and infection		09:50:17	1000

[Clear History](#)

[Write to the Help Desk](#)

NCBI | NLM | NIH

Department of Health & Human Services

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Feb 24 2006 04:49:50



A service of the National Library of Medicine
and the National Institutes of Health

[My NCBI](#)
[\[Sign In\]](#) [\[Reg\]](#)

All Databases

PubMed

Nucleotide

Protein

Genome

Structure

OMIM

PMC

Journals

Books

Search **PubMed**for **alpha 2 macroglobulin and bacteria**[Preview](#)[Go](#)[Clipboard](#) Limits[Preview/Index](#)[History](#)[Clipboard](#)[Details](#)**Limits: Publication Date to 2000**

- Search History will be lost after eight hours of inactivity.
- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.
- Click on query # to add to strategy

[About Entrez](#)
[NCBI Toolbar](#)

[Text Version](#)

[Entrez PubMed](#)
[Overview](#)
[Help | FAQ](#)
[Tutorials](#)
[New/Noteworthy](#)
[E-Utilities](#)

[PubMed Services](#)
[Journals Database](#)
[MeSH Database](#)
[Single Citation Matcher](#)
[Batch Citation Matcher](#)
[Clinical Queries](#)
[Special Queries](#)
[LinkOut](#)
[My NCBI](#)

[Related Resources](#)
[Order Documents](#)
[NLM Mobile](#)
[NLM Catalog](#)
[NLM Gateway](#)
[TOXNET](#)
[Consumer Health](#)
[Clinical Alerts](#)
[ClinicalTrials.gov](#)
[PubMed Central](#)

Search	Most Recent Queries	Time	Result
#42 Search alpha 2 macroglobulin and bacteria Limits: Publication Date to 2000		12:50:58	217
#36 Search #35 Field: All Fields, Limits: Publication Date to 2000		11:18:20	54
#35 Related Articles for PubMed (Select 12747761)		11:06:03	169
#33 Search #32 and alpha 2 macroglobulin		11:05:38	5
#32 Related Articles for PubMed (Select 11672922)		11:05:11	108
#26 Search alpha 2 macroglobulin and hepatitis		11:04:52	70
#9 Related Articles for PubMed (Select 1375941)		10:32:44	114
#21 Search #20 and alpha 2 macroglobulin		10:32:09	66
#20 Related Articles for PubMed (Select 11100124)		10:24:57	221
#15 Search #12 and virus		10:19:39	17
#13 Search #12 and infection		10:17:58	23
#12 Search alpha 2 macroglobulin and protein complex		10:17:44	915
#5 Search infection and alpha 2 macroglobulin		10:00:14	285
#3 Search t cell epitopes and immune escape and infection		09:50:58	53
#2 Search t cell epitopes and immune escape		09:50:44	124
#1 Search t cell epitopes and infection		09:50:17	1000

[Clear History](#)[Write to the Help Desk](#)[NCBI | NLM | NIH](#)[Department of Health & Human Services](#)[Privacy Statement | Freedom of Information Act | Disclaimer](#)

Feb 24 2006 04:49:50